

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

DATA MATRIX							
Date 4/1/2015			EPA Reg No./File Symbol		Page 1 of 7		
Applicant's/Registrant's Name & Address Ag NuBio Inc., 11125 N. Ambassador Drive, Ste. 120 Kansas City MO 64153		Product Biorend					
Ingredient Chitosan Technical (PC C	Code 128930)		•				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note		
830.6302	Color		Ag NuBio	Submitted			
830.6303	Physical State		Ag NuBio	Submitted			
830.6304	Odor		Ag NuBio	Submitted			
830.6313	Stability	44292301	Glycogenesys Inc	OLD			
830.6314	Oxidation/Reduction: Chemical incompatibility		Ag NuBio	Submitted			
830.6315	Flammability		Ag NuBio	Submitted			
830.6316	Explodability		Ag NuBio	Submitted			
830.6317	Storage Stability	46248901	VA & G Bioscience	PAY			
830.6319	Miscibility		Ag NuBio	Submitted			
830.6320	Corrosion Characteristics	46248901	VA & G Bioscience	PAY			
830.6321	Dielectric Breakdown Voltage		Ag NuBio	Submitted			
830.7000	рН		Ag NuBio	Submitted			
830.7050	UV / Visible		Ag NuBio	Submitted			
830.7100	Viscosity		Ag NuBio	Submitted			
830.7200	Melting Range		Ag NuBio	Submitted			
Signature	4		Name and Title Dr. Matthew Brooks, Regulatory Consultant		Date 4/1/2015		



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Applicant's/Registrant's Name & Address Ag NuBio 11125 N. Ambassador Drive, Ste 120 Kansas City, MO 64153			Product Biorend		
Ingredient Chitosan (PC Code 1	28930)		-		
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7220	Boiling Range		Ag NuBio	Submitted	
830.7300	Bulk Density / Specific Gravity		Ag NuBio	Submitted	
830.7370	Dissociation Constant in Water		Ag NuBio	Submitted	
830.7520	Particle Size / Distribution		Ag NuBio	Submitted	
830.7550	Partition Coefficient		Ag NuBio	Submitted	
830.7840	Water Solubility		Ag NuBio	Submitted	
830.7950	Vapor Pressure		Ag NuBio	Submitted	
880.1200	Description of Formulation Process		Ag NuBio	Submitted	
880.1400	Discussion of Impurities		Ag NuBio	Submitted	
830.1700	Preliminary Analysis		Ag NuBio	Submitted	
830.1750	Certified Limits		Ag NuBio	Submitted	
830.1800	Enforcement Analytical Method		Ag Nu	PAY	
880.1100	Product Identity and Composition		Ag NuBio	Submitted	
880.1200	Description of Materials Used to Produce the Product		Ag NuBio	Submitted	
880.1200	Description of Production Process		Ag NuBio	Submitted	*
Signature	3 0		Name and Title Dr. Matthew Brooks, Regulatory Consultant		Date 4/1/2015



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Applicant's/Registrant's Name & Address Ag NuBio 11125 N. Ambassador Drive, Ste 120 Kansas City, MO 64153			Product Biorend				
Ingredient Chitosan (PC Code 12	3930)						
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note		
870.1100	Acute Oral Toxicity -Rat		Ag NuBio	Submitted			
870.1200	Acute Dermal toxicity		Ag NuBio	Submitted			
870.1300	Acute inhalation toxicity- Rat		Ag NuBio	Submitted			
870.2400	Primary Eye Irritation- Rabbit		Ag NuBio	Submitted			
870.2500	Primary dermal Irritation		Ag NuBio	Submitted			
870.2600	Dermal Sensitization		Ag NuBio	Submitted			
	Hypersensitivity Events	44185814	Glycogenesys	OLD			
870.3100	90-Oral	47279603	Agrihouse Brands	PAY			
870.3250	90-Day Dermal Rat	47279603	Agrihouse Brands	PAY			
870.3700	Prenatal Development toxicity - rat	47362201	Agrihouse Brands	PAY			
870.3465	90 Day Inhalation-Rat	47362201	Agrihouse Brands	PAY	7.00		
880.3550	Immunotoxicity	47362201	Agrihouse Brands	PAY			
870.5100	Bacterial reverse mutation assay	46790203	IR-4	PAY			
870.5300	In vitro mammalian cell assay	46790203	IR-4	PAY			
870.5375	In vitro mammalian cell assay	46790203	IR-4	PAY			
Signature Signature	5 N		Name and Title Dr. Matthew Brooks, Regulatory Consultant		Date 4/1/2015		



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Ingredient Chitosan (PC Code 12	28930)		•				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note		
e							
850.2100	Avian oral toxicity	47362201	Agrihouse Brands	PAY			
850.2200	Avian dietary toxicity	47362201	Agrihouse Brands	PAY			
850.1075	Freshwater fish acute toxicity	46790205	IR-4	PAY			
850.1010	Acute toxicity freshwater invertebrates (daphnia)	46790205	IR-4	PAY			
850.4100	Seedling Emergence	46790205	IR-4	PAY			
850.4150	Vegetative Vigor (algal)	46790205	IR-4	PAY			
850.4350	Nontarget Insect	46790205	IR-4	PAY			
850.3020	HoneyBee Acute Testing	46790205	IR-4	PAY			
Signature		•	Name and Title Dr. Matthew Brooks, Regulatory Consultant	•	Date 4/1/2015		



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Date 4/1/2015 Applicant's/Registrant's Name & Address Ag NuBio Inc., 11125 N. Ambassador Drive, Ste. 120 Kansas City MO 64153		EPA Reg No./File Symbol Page Product BioRend		Page 5 of 7	
Ingredient Chitosan Technical (PC	Code 128930) End Use Product				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6302	Color		Ag NuBio	Submitted	
830.6303	Physical State		Ag NuBio	Submitted	
830.6304	Odor		Ag NuBio	Submitted	
830.6313	Stability		Ag NuBio	Submitted	
830.6314	Oxidation/Reduction: Chemical incompatibility		Ag NuBio	Submitted	
830.6315	Flammability		Ag NuBio	Submitted	
830.6316	Explodability		Ag NuBio	Submitted	
830.6317	Storage Stability		Ag Bio	In Prog	
830.6319	Miscibility		Ag NuBio	Submitted	
830.6320	Corrosion Characteristics		Ag NuBio	In Prog	
830.6321	Dielectric Breakdown Voltage		Ag NuBio	Submitted	
830.7000	pH		Ag NuBio	Submitted	
830.7050	UV / Visible		Ag NuBio	Submitted	
830.7100	V'scosity		Ag NuBio	Submitted	
830.7200	Melting Rauge		Ag NuBio	Submitted	
Signature			Name and Title Dr. Matthew Brooks, Regulatory Consultant		Date 4/1/2015



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Applicant's/Registrant's Name & Address Ag NuBio 11125 N. Ambassador Drive, Ste 120 Kansas City, MO 64153			Product Biorend				
Ingredient Chitosan (PC Code 12	8930) End Use Product	· · · · · · · · · · · · · · · · · · ·					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note		
830.7220	Boiling Range		Ag NuBio	Submitted			
830.7300	Bulk Density / Specific Gravity		Ag NuBio	Submitted			
830.7520	Particle Size / Distribution		Ag NuBio	Submitted			
830.7550	Partition Coefficient		Ag NuBio	Submitted			
830.7840	Water Solubility		Ag NuBio	Submitted			
830.7950	Vapor Pressure		Ag NuBio	Submitted			
880.1200	Description of Formulation Process		Ag NuBio	Submitted			
880.1400	Discussion of Impurities		Ag NuBio	Submitted			
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880.1200	Description of Materials Used to Produce the Product		Ag NuBio	Submitted			
880.1200	Description of Production Process		Ag NuBio	Submitted			
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Applicant's/Registrant's Name & Address Ag NuBio 11125 N. Ambassador Drive, Ste 120 Kansas City, MO 64153		Product Biorend		1	
Ingredient Chitosan (PC Code 128	3930) End Use Product				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.1100	Acute Oral Toxicity -Rat		Ag NuBio	Submitted	
870.1200	Acute Dermal toxicity		Ag NuBio	Submitted	
870.1300	Acute inhalation toxicity- Rat		Ag NuBio	Submitted	
870.2400	Primary Eye Irritation- Rabbit		Ag NuBio	Submitted	
870.2500	Primary dermal Irritation		Ag NuBio	Submitted	
870.2600	Dermal Sensitization		Ag NuBio	Submitted	
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Signature		•	Name and Title Dr. Matthew Brooks, Regulatory Consultant		Date 4/1/2015



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Applicant's/Registrant's Name & Address Ag NuBio Inc., 11125 N. Ambassador Drive, Ste. 120 Kansas City MO 64153		Product Biorend			
ngredient Chitosan Technical (F	PC Code 128930)		•		
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Ag NuBio	Submitted	
			Ag NuBio	Submitted	
			Ag NuBio	Submitted	
			Glycogenesys Inc	OLD	
			Ag NuBio	Submitted	
			Ag NuBio	Submitted	
			Ag NuBio	Submitted	
			VA & G Bioscience	PAY	
			Ag NuBio	Submitted	
			VA & G Bioscience	PAY	
			Ag NuBio	Submitted	
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Applicant's/Registrant's Name & Addr	ress		Product				
Ag NuBio 11125 N. Ambassador Driv	ve, Ste 120 Kansas City, MO 64153		Biorend				
Ingredient Chitosan (PC Code 1289	930)						
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note		
			Ag NuBio	Submitted			
			Ag NuBio	Submitted			
			Ag NuBio	Submitted			
			Ag NuBio	Submitted			
			Ag NuBio	Submitted			
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Signature	1-/		Name and Title		Date		
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Applicant's/Registrant's Name & Address	ss		Product				
Ag NuBio 11125 N. Ambassador Drive	e, Ste 120 Kansas City, MO 64153		Biorend				
Ingredient Chitosan (PC Code 12893	90)						
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note		
			Ag NuBio	Submitted			
			Ag NuBio	Submitted			
			Ag NuBio	Submitted			
			Ag NuBio	Submitted			
			Ag NuBio	Submitted			
			Ag NuBio	Submitted			
			Glycogenesys	OLD			
			Agrihouse Brands	PAY			
			Agrihouse Brands	PAY			
			Agrihouse Brands	PAY			
			Agrihouse Brands	PAY			
			Agrihouse Brands	PAY			
			IR-4	PAY			
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Applicant's/Registrant's Name & Addre			Product		-
Ag NuBio 11125 N. Ambassador Drive	e, Ste 120 Kansas City, MO 64153		Biorend		
ngredient Chitosan (PC Code 12893	30)				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
					5
			Agrihouse Brands	PAY	
			Agrihouse Brands	PAY	
			IR-4	PAY	
			IR-4	PAY	
			IR-4	PAY	
			IR-4	PAY	
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Ag NuBio Inc., 11125 N. Ambassador I	Drive, Ste. 120 Kansas City MO 64153		BioRend				
Ingredient Chitosan Technical (PC Co	ode 128930) End Use Product						
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note		
			Ag NuBio	Submitted	0		
			Ag NuBio	Submitted	.1		
			Ag NuBio	Submitted			
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Ag NuBio 11125 N. Ambassador Drive, Ste 120 Kansas City, MO 64153			Biorend						
Ingredient Chitosan (PC Code 128930) End Use Product									
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note				
			Ag NuBio	Submitted					
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Signature			Name and Title Dr. Matthew Brooks, Regulatory Consultant		Date 4/1/2015				